**BIOTECHNOLOGY
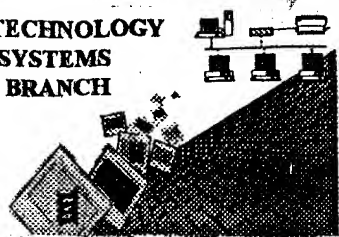SYSTEMS
BRANCH**

RAW SEQUENCE LISTING
ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information
Center (STIC) detected errors when processing the following computer readable
form:

Application Serial Number: *09/954,987A*
Source: *OIPE*
Date Processed by STIC: *6/4/2002*

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:
1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE
   APPLICANT, WITH A NOTICE TO COMPLY or,
2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A
   NOTICE TO COMPLY
FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.
  PATENTIN 2.1 e-mail help: **patin21help@uspto.gov** or phone 703-306-4119 (R. Wax)
  PATENTIN 3.0 e-mail help: **patin3help@uspto.gov** or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE **CHECKER
VERSION 3.1 PROGRAM**, ACCESSIBLE THROUGH THE U.S. PATENT AND
TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:
        http://www.uspto.gov/web/offices/pac/checker

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is
a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.
Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom!
Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the
United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (**<http://www.uspto.gov/ebc/efs/downloads/documents.htm>**, **EFS Submission
   User Manual - ePAVE**)
2. U.S. Postal Service: U.S. Patent and Trademark Office, Box Sequence, P.O. Box 2327, Arlington, VA 22202
3. Hand Carry directly to:
   U.S. Patent and Trademark Office, Technology Center 1600, Reception Area, 7th Floor, Examiner Name,
   Sequence Information, Crystal Mall One, 1911 South Clark Street, Arlington, VA 22202
           Or
   U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two,
   2011 South Clark Place, Arlington, VA 22202
4. Federal Express, United Parcel Service, or other delivery service to: U.S. Patent and Trademark Office,
   Box Sequence, Room 1B03-Mailroom, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202

Revised 01/29/2002

OIPE

Does Not Comply
Corrected Diskette Needed

pp 1-3

```
 4 <110> APPLICANT: Stefan Bauer
 5        Grayson B. Lipford
 6        Hermann Wagner
 8 <120> TITLE OF INVENTION: PROCESS FOR HIGH THROUGHPUT SCREENING OF
 9        CpG-BASED IMMUNO-AGONIST/ANTAGONIST
12 <130> FILE REFERENCE: C1041/7016 (AWS)
14 <140> CURRENT APPLICATION NUMBER: US 09/954,987A
15 <141> CURRENT FILING DATE: 2001-09-17
17 <150> PRIOR APPLICATION NUMBER: US 60/233,035
18 <151> PRIOR FILING DATE: 2000-09-15
20 <150> PRIOR APPLICATION NUMBER: US 60/263,657
21 <151> PRIOR FILING DATE: 2001-01-23
23 <150> PRIOR APPLICATION NUMBER: US 60/291,726
24 <151> PRIOR FILING DATE: 2001-05-17
26 <150> PRIOR APPLICATION NUMBER: US 60/300,210
27 <151> PRIOR FILING DATE: 2001-06-22
29 <160> NUMBER OF SEQ ID NOS: 230
31 <170> SOFTWARE: FastSEQ for Windows Version 3.0
```

ERRORED SEQUENCES

```
  630 <210> SEQ ID NO: 9
  631 <211> LENGTH: 497
  632 <212> TYPE: DNA
  633 <213> ORGANISM: Mus musculus
  635 <400> SEQUENCE: 9
  636  gtgggtttgg tgtctatctt cactctcctg aaagatgcat gggaagaaaa ctacccttta      60
  637  cagccaacct ttgctccgtg ggcctggtgg cttggtagca tatattgcgc acttgccaaa     120
  638  tagcggtgta gtaagacaga gcaaggcagg cagagcaact cgggaaccag acatgaagat     180
  639  gcagctgttt ccagctgttg ctctgagcta ttctgctgta ggtccccggc agaagttctg     240
  640  gttatagaag tggcggttgt ccctagtcag ggctgtactc agctgggccc agaagccccc     300
  641  ctgcccgttg ggtcgctggg gccagaagag cacactctgg cggcagagac gctggcgcag     360
E--> 642  tcgcacatag cgggacggtn gggcatccgg acgcaggatc accaacacca ccacgtcctt     420
  643  gcggtcttcc aacaggcgct gctgagccag caggaagctg gtgcgcagga ggccactgac     480
  644  gcggtccgtg tgggcca                                                     497
```

> see p. 3

```
  646 <210> SEQ ID NO: 10
  647 <211> LENGTH: 95
  648 <212> TYPE: PRT
  649 <213> ORGANISM: Mus musculus
  651 <400> SEQUENCE: 10
  652  Ala His Thr Asp Arg Val Ser Gly Leu Leu Arg Thr Ser Phe Leu Leu
  653   1               5                  10                  15
```

p. 2

RAW SEQUENCE LISTING   DATE: 06/04/2002
PATENT APPLICATION: US/09/954,987A   TIME: 15:02:30

Input Set : A:\seqlist.txt
Output Set: N:\CRF3\06042002\I954987A.raw

```
       654    Ala Gln Gln Arg Leu Leu Glu Asp Arg Lys Asp Val Val Val Leu Val
       655             20                  25                  30
E-->   656    Ile Leu Arg Pro Asp Ala Xaa Pro Ser Arg Tyr Val Arg Leu Arg Gln
       657             35                  40                  45
       658    Arg Leu Cys Arg Gln Ser Val Leu Phe Trp Pro Gln Arg Pro Asn Gly
       659          50                  55                  60
       660    Gln Gly Gly Phe Trp Ala Gln Leu Ser Thr Ala Leu Thr Arg Asp Asn
       661    65                  70                  75                  80
       662    Arg His Phe Tyr Asn Gln Asn Phe Cys Arg Gly Pro Thr Ala Glu
       663             85                  90                  95
      4351    <210> SEQ ID NO: 203
      4352    <211> LENGTH: 31
      4353    <212> TYPE: PRT
      4354    <213> ORGANISM: Homo sapiens
      4356    <400> SEQUENCE: 203
E-->  4357    Arg Xaa Xaa Xaa Xaa Xaa Xaa Xaa Arg Xaa Asp Xaa Leu Xaa Xaa Xaa
      4358    1               5                   10                  15
E-->  4359    Xaa Xaa Xaa Xaa Xaa Xaa Lys Leu Xaa Xaa Xaa Xaa Xaa Xaa Ser
      4360              20                  25                  30
      4362    <210> SEQ ID NO: 204
      4363    <211> LENGTH: 31
      4364    <212> TYPE: PRT
      4365    <213> ORGANISM: Mus musculus
      4367    <400> SEQUENCE: 204
E-->  4368    Arg Xaa Xaa Xaa Xaa Xaa Xaa Xaa Arg Xaa Asp Xaa Leu Xaa Xaa Xaa
      4369    1               5                   10                  15
E-->  4370    Xaa Xaa Xaa Xaa Xaa Xaa Ser Leu Xaa Xaa Xaa Xaa Xaa Xaa Ser
      4371              20                  25                  30
      4373    <210> SEQ ID NO: 205
      4374    <211> LENGTH: 31
      4375    <212> TYPE: PRT
      4376    <213> ORGANISM: Homo sapiens
      4378    <400> SEQUENCE: 205
E-->  4379    Lys Xaa Xaa Xaa Xaa Xaa Xaa Xaa Arg Xaa Asp Xaa Asp Xaa Xaa Xaa
      4380    1               5                   10                  15
E-->  4381    Xaa Xaa Xaa Xaa Xaa Xaa Asp Leu Xaa Xaa Xaa Xaa Xaa Xaa Tyr
      4382              20                  25                  30
      4384    <210> SEQ ID NO: 206
      4385    <211> LENGTH: 31
      4386    <212> TYPE: PRT
      4387    <213> ORGANISM: Mus musculus
      4389    <400> SEQUENCE: 206
E-->  4390    Lys Xaa Xaa Xaa Xaa Xaa Xaa Xaa Arg Xaa Asp Xaa Asp Xaa Xaa Xaa
      4391    1               5                   10                  15
E-->  4392    Xaa Xaa Xaa Xaa Xaa Xaa Asp Leu Xaa Xaa Xaa Xaa Xaa Xaa His
      4393              20                  25                  30
```

VARIABLE LOCATION SUMMARY   DATE: 06/04/2002
PATENT APPLICATION: **US/09/954,987A**   TIME: 15:02:32

Input Set : **A:\seqlist.txt**
Output Set: **N:\CRF3\06042002\I954987A.raw**

<u>Use of n's or Xaa's(NEW RULES):</u>
Use of n's and/or Xaa's have been detected in the Sequence Listing.
Use of <220> to <223> is MANDATORY if n's or Xaa's are present.
in <220> to <223> section, please explain location of n or Xaa, and which
residue n or Xaa represents.

```
Seq#:9; N Pos. 380
Seq#:10; Xaa Pos. 39
Seq#:125; Xaa Pos. 2,3,4,5,6,7,8,10,12,14,15,16,17,18,19,20,21,22,25,26,27
Seq#:125; Xaa Pos. 28,29,30
Seq#:126; Xaa Pos. 2,3,4,5,6,7,8,10,12,14,15,16,17,18,19,20,21,22,25,26,27
Seq#:126; Xaa Pos. 28,29,30
Seq#:127; Xaa Pos. 2,3,4,5,6,7,8,10,12,14,15,16,17,18,19,20,21,22,25,26,27
Seq#:127; Xaa Pos. 28,29,30
Seq#:145; Xaa Pos. 2,3,5,6,7,8,9,10,12,13
Seq#:196; Xaa Pos. 4,5,7,8,9,10,11,12,14,15
Seq#:203; Xaa Pos. 2,3,4,5,6,7,8,10,12,14,15,16,17,18,19,20,21,22,25,26,27
Seq#:203; Xaa Pos. 28,29,30
Seq#:204; Xaa Pos. 2,3,4,5,6,7,8,10,12,14,15,16,17,18,19,20,21,22,25,26,27
Seq#:204; Xaa Pos. 28,29,30
Seq#:205; Xaa Pos. 2,3,4,5,6,7,8,10,12,14,15,16,17,18,19,20,21,22,25,26,27
Seq#:205; Xaa Pos. 28,29,30
Seq#:206; Xaa Pos. 2,3,4,5,6,7,8,10,12,14,15,16,17,18,19,20,21,22,25,26,27
Seq#:206; Xaa Pos. 28,29,30
```

VERIFICATION SUMMARY   DATE: 06/04/2002
PATENT APPLICATION: **US/09/954,987A**   TIME: 15:02:32

Input Set : **A:\seqlist.txt**
Output Set: **N:\CRF3\06042002\I954987A.raw**

```
L:642 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:9
L:656 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:10
L:1980 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:125
L:1980 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:125
L:1980 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:125 after pos.:0
L:1982 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:125
L:1982 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:125
L:1982 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:125 after pos.:16
L:1994 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:126
L:1994 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:126
L:1994 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:126 after pos.:0
L:1996 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:126
L:1996 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:126
L:1996 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:126 after pos.:16
L:2008 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:127
L:2008 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:127
L:2008 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:127 after pos.:0
L:2010 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:127
L:2010 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:127
L:2010 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:127 after pos.:16
L:2021 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:2025 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:128
L:2029 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:128
L:2033 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:128
L:2037 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:128
L:2226 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:145
L:2227 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:145
L:2227 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:145
L:2227 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:145 after pos.:0
L:4294 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:196
L:4294 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:196
L:4294 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:196 after pos.:0
L:4357 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:203
M:340 Repeated in SeqNo=203
L:4368 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:204
M:340 Repeated in SeqNo=204
L:4379 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:205
M:340 Repeated in SeqNo=205
L:4390 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:206
M:340 Repeated in SeqNo=206
L:4403 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:4407 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:207
```